



SEQUENCE LISTING

<110> Supratek Pharmaceuticals, Inc.

<120> Vascular Endothelial Growth Factor Receptor

<130> 082181-36154

<140> 09/775,742

<141> 2001-02-02

<150> 60/180,568

<151> 2000-02-04

<160> 33

<170> PatentIn version 3.1

<210> 1

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>

<221> MOD_RES

<222> (16)..(16)

<223> AMIDATION

<400> 1

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
1 5 10 15

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>

<221> MOD_RES

<222> (17)..(17)

<223> AMIDATION

<400> 2

Cys Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met

1

5

10

15

Tyr

<210> 3
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (17)..(17)
<223> AMIDATION

<400> 3

Cys	Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met
1				5					10					15	

Tyr

<210> 4
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Fluorescein 5 carbonyl

<220>
<221> MOD_RES
<222> (16)..(16)
<223> AMIDATION

<400> 4

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
1 5 10 15

<210> 5

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Fluorescein-5-carbonyl

<220>

<221> MOD_RES

<222> (19)..(19)

<223> AMIDATION

<400> 5

Glu Glu Glu Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His
1 5 10 15

Gly Met Tyr

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Fluorescein-5-carbonyl

<220>

<221> MOD_RES

<222> (15)..(15)

<223> AMIDATION

<400> 6

Asn	Gly	Tyr	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15

<210> 7

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>

<221> MISC_FEATURE

<222> (2)..(3)

<223> Xaa = any amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(9)

<223> Xaa = any amino acid

<220>

<221> MISC_FEATURE

<222> (11)..(15)

<223> Xaa = any amino acid

<400> 7

Asn	Xaa	Xaa	Glu	Ile	Glu	Xaa	Xaa	Xaa	Trp	Xaa	Xaa	Xaa	Xaa	Xaa	Tyr
1				5					10						15

<210> 8

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa = Asn or Gln

<220>
<221> MISC_FEATURE
<222> (2)..(3)
<223> Xaa = Any amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = Glu or Asp

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = Ile, Leu, Val, or Met

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Glu or Asp

<220>
<221> MISC_FEATURE
<222> (7)..(9)
<223> Xaa = Any amino acid

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa = Trp, Phe, Tyr, or His

<220>
<221> MISC_FEATURE
<222> (11)..(15)
<223> Xaa = Any amino acid

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa = Trp, Phe, Tyr, or His

<400> 8

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

<210> 9

<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 9
gggcccggttaa cgggtacgag atcgagtggg actcgtgggt cacgcacggg atgtacggtg 60
gcgctttctg 69

<210> 10
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 10
gggcccggtcc ggagcccag gtccgggtga gtccgccggg tcatatccag tcgctcggtg 60
gcgctttctg 69

<210> 11
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 11
gggcccggttt tgtggggggg tggttggtc cggaggacga gcggctctac ccggaggggtg 60
gcgctttctg 69

<210> 12
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 12
aagcgccacc 10

<210> 13
<211> 11

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 13
accggccccg t

11

<210> 14
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 14

Ala	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 15
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 15

Asn	Gly	Tyr	Ala	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 16
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 16

Asn	Gly	Tyr	Glu	Ala	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 17
<211> 16
<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 17

Asn	Gly	Tyr	Glu	Ile	Ala	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 18

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 18

Asn	Gly	Tyr	Glu	Ile	Glu	Ala	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 19

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 19

Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Ala	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 20

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 20

Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ala	Trp	Val	Thr	His	Gly	Met	Tyr
1				5					10					15	

<210> 21

<211> 16

<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 21

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Ala Val Thr His Gly Met Tyr
1 5 10 15

<210> 22
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 22

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Ala His Gly Met Tyr
1 5 10 15

<210> 23
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 23

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr Ala Gly Met Tyr
1 5 10 15

<210> 24
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 24

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Ala Tyr
1 5 10 15

<210> 25

<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 25

Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Ala
1 5 10 15

<210> 26
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 26

Asn Gly Tyr Ala Ile Ala Trp Tyr Ser Trp Val Thr His Gly Met Tyr
1 5 10 15

<210> 27
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 27

Asn Gly Tyr Glu Ile Glu Ala Tyr Ser Ala Val Thr His Gly Met Tyr
1 5 10 15

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 28

Glu Ile Glu Trp Tyr Ser Trp
1 5

<210> 29
<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> Chemical peptide synthesis and biosynthesis utilizing E. coli

<400> 29

Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
1 5 10

<210> 30
<211> 29
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 30

ataacaagct tggcgcggag atgggggtg

29

<210> 31
<211> 32
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 31

ataactctag aacggtggca gcagcatgtc ac

32

<210> 32
<211> 85
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 32

acaactctag aatgaacggg tacgagatcg agtgggtactc gtgggtcacg cacgggatgt

60

actctggggc cggatctaga caaca

85

<210> 33
<211> 13
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 33

gccgccacca tgg

13